

# **Progress Report of Wolf Population Monitoring in Wisconsin for the Period October-December 2002 and Summaries of 2002**

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## **SUMMARY**

During fall 2002, 66 radio collared wolves were monitored across northern and central Wisconsin. Sixty-one wolves were monitored in 41 packs, and 5 were monitored as loners. Five additional wolves were radio collared during the period, including 4 caught in coyote traps and one caught at a depredation site. Of the wolves monitored during the period, 4 died, 2 dispersed to Michigan and 5 signals were lost. A total of 51 wolves were captured by DNR, USDA-Wildlife Services, and coyote trappers and 49 wolves were radio tagged in 2002. Twenty-one cases of wolf depredation on domestic animals were reported in 2002. During 2002, 59 wolves were found dead in Wisconsin, including 20 radio tagged wolves.

## **INTRODUCTION**

The enclosed report provides a summary of wolf monitoring activity in Wisconsin for the period of October through December 2002, and annual summaries for mortalities and depredations for the year 2002. A more thorough report on winter surveys will be completed in spring 2003, along with an estimation of the winter wolf population.

Gray wolves were listed as state endangered in 1975, and listed as state threatened since October 1, 1999. A new management plan for the state was approved on October 27, 1999. Wolves have been federally listed as endangered since 1974, but will likely be reclassified to threatened status later in 2003. Last winter 323 wolves were counted in 81 packs across the state, but depredation control work indicated that at least 2 more packs existed in the state in 2002. Thus, total count was probably 327 wolves, and at least 312 wolves existed outside of Indian reservations.

## **ACKNOWLEDGEMENT**

Many people assisted on wolf surveys in Wisconsin. A more complete list will be prepared at the end of winter surveys. Aerial monitoring of collared wolves was done by DNR pilots Phil Miller, Joe Sprenger, John Bronson, Paul Anderson, Mike Weinfurter and Dan Cardinal. Trapping and howl surveys by DNR personnel were done by Ron Schultz, Dick Thiel, Wayne Hall, Sarah Boles, Rich Wissink, Todd Naas, Greg Kessler, Buck Follis, Bruce Bacon and Adrian Wydeven. Kerry Beheler and Dr. Julie Langenberg coordinated wolf health monitoring. Dr. Grace McLaughlin coordinated necropsies, and Dr. Nancy Thomas and Dr. Valerie Shearn-Bochsler conducted necropsies on Wisconsin wolves. Randy Jurewicz coordinated the depredation control program, wolf carcass transports, and carcass distribution. Jane Wiedenhoeft coordinated data entry, analysis, and preparation of tables and graphics for reports. Ellen Heilhecker of

UW-Stevens Point conducted a study of pup mortality. Bob Willging supervised USDA-Wildlife Services personnel in investigating and live trapping of problem wolves in northern Wisconsin and Scott Beckerman supervised USDA-Wildlife Services personnel investigating wolf depredations in southern and central Wisconsin. Mary Singsime typed this report.

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## RESULTS AND DISCUSSION

Radio tagged wolves were monitored in 41 wolf packs in the state (Table 1). Thus radio tagged wolves occurred in 49% of the state wolf packs. A total of 66 radio collared and radio ear-tagged wolves were monitored in Wisconsin during portions of the fall, and by the end of the period 55 wolves remained on the air. Five wolves were added to the list of radio collared wolves in the fall due to 4 captures by coyote trappers, and 1 capture at a depredation site. Losses during the quarter included 4 deaths (300F, 437F, 441F and 453M), 5 signal losses (249F, 433M, 420M, 421F and 427F), and 2 dispersed to Michigan (436F and 455F). Mortalities included 2 shootings, 1 drowned and 1 vehicle collision. Fifteen wolves translocated from depredation sites in 2002 were monitored during the period. Seven wolves translocated as a pack remained together, but one died from a vehicle collision. Eight wolves that had been translocated individually included 2 wolves that moved into Michigan, 3 wolves that may have joined other packs, and 3 wolves that seemed to mainly remain as loners.

Fifty-one wolves were live captured in Wisconsin in 2002, and 49 were fitted with collar or ear-tag radio transmitters (Table 2). Eighteen wolves were live captured by USDA-Wildlife Services at depredation sites, 29 wolves were captured by DNR, and 4 wolves were captured in traps of coyote trappers. Wildlife Services trapped wolves from 3 depredation sites: 9 wolves from a farm in northern Burnett County were released 59 to 109 miles to the east; 7 of 8 wolves from a farm in northern Langlade County were moved 32 miles to the southeast; and 1 wolf from eastern Taylor County was moved 52 miles north. Ten of the wolves captured by the DNR were pups fitted with short term eartag transmitters to assess pup mortality in central Wisconsin.

Twenty-one cases of wolf depredation on domestic animals were verified by USDA-Wildlife Services in Wisconsin in 2002 (Table 3). Total payments were likely to exceed the \$47,228.50 listed in Table 3. Total kill of 62 animals is the highest kill ever recorded on non poultry domestic animals.

Livestock depredation (including deer farm) occurred on 10 farms in 7 counties. Cattle were killed on 6 farms in 6 different counties and included 35 calves and 2 cows killed; 26 of the cattle kills (70%) occurred on one farm in northern Burnett County. Three horses were killed on 2 farms. These are the first horse depredations verified in Wisconsin. Seven sheep were found killed by members of the Flag River Pack in northern Bayfield County, but the farmer claimed an additional 20 missing sheep. Eight packs were involved in depredation on livestock.

Wolf depredation on dogs included 10 killed and 4 injured. Three dogs were injured and one was killed near people's homes. Nine dogs were killed and one injured in wild land areas hunting or training on bear and bobcat. Seven packs were responsible for depredation on dogs. Three packs were involved in dog depredation last year and accounted for 7 of the dogs killed and 1 of the injured. Packs involved in depredation on dogs often are younger packs, but in 2002 the Bootjack Lake Pack that had occurred in Wisconsin for 22+ years, killed 2 dogs for the first time.

A total of 59 dead wolves were detected in Wisconsin in 2002 (Table 4). Last year 26 dead wolves were detected and in 2000 25 dead wolves were found. The drastic increase observed in 2002 probably reflects the higher wolf population in the state, and high mortality in more marginal habitat. Overall mortality included shootings-15 (25%), vehicle collisions-23 (39%), mange and related conditions-8 (14%), parvovirus-1 (2%), starvation-1 (2%), drowning-1 (2%), other wolves-4 (7%), capture related-1 (2%) and unknown-5 (8%). Sixty-six percent of mortalities were human caused.

A total of 15 Wisconsin radio tagged wolves were found dead. Five Michigan radio tagged wolves, including one monitored by Wisconsin DNR before its death, were also found in the state.

Mortality of wolves being actively monitored is more indicative of overall rates of mortality. Mortality of the 14 wolves being actively monitored was: shootings-4 (29%), vehicle collisions or other trauma-2 (14%), capture related-1 (7%), drowning-1 (7%), other wolves-2 (14%), mange/malnutrition-2 (14%) and unknown-2 (14%). Of these actively monitored wolves, 50% were human caused mortalities. Illegal killing seems to have increased considerably in the last 2 years (7 of 27 deaths in 2001 and 15 of 59 deaths in 2002), but does not appear to be slowing down the growth of the wolf population.

#### PLANS FOR NEXT QUARTER

Aerial monitoring of radio tagged wolves will continue, with special attempts to get counts of packs when snow covers the ground. Snow tracking will be used by DNR trackers and volunteer trackers to locate and estimate numbers of other wolves. Territorial mapping will be used to determine the size and distribution of the wolf population. Work will begin on state delisting of wolves, and hopefully federal reclassification to threatened status will be finalized.

Table 1. Radio-collared wolves monitored in northern and central Wisconsin October - December 2002.

<b>Wolf Number</b>	<b>Age<sup>a</sup></b>	<b>Pack/Area</b>	<b>Counties</b>	<b>Date Captured</b>	<b>Last Date</b>	<b>Locations<sup>b</sup></b>
<b><u>Northern Forest</u></b>						
M036F	Y	West Firelane	Ashland/Iron	4 May 00 <sup>c</sup>	Ongoing	93
241F	P	Porcupine Lake area	Bayfield	20 Nov 97 <sup>d</sup>	Ongoing	250
246M	A	Harrison Hills	Lincoln	17 May 98 <sup>e</sup>	Ongoing	23
248M	A	Torch River	Ashland	28 Jun 00	Ongoing	130
249F	Y	Price Creek/Disperser?	Price/Sawyer	24 Oct 02	10 Dec 02 <sup>f</sup>	10
268M	Y	Truck Trail	Douglas/Pine	11 Jun 97 <sup>g</sup>	Ongoing	361
285F	A	Ranger Island	Lincoln	24 Aug 98	Ongoing	227
291M	A	Chain Lake	Washburn/Douglas	27 Jun 99	Ongoing	193
297M	A	South Empire	Douglas	2 Jun 99	Ongoing	196
300F	A	Harrison Hills	Lincoln	18 May 01	27 Nov 02 <sup>h</sup>	84
332F	A	Pelican Lake	Oneida	10 May 00 <sup>i</sup>	Ongoing	158
336M	Y	Bootjack Lake	Price/Oneida	3 Jun 01	Ongoing	82
351M	A	Chippewa River	Ashland/Iron	17 Jun 00	Ongoing	130
355M	A	Little Rice River	Oneida/Price	28 Jun 01	Ongoing	81
369F	A	Siskiwit Lake	Bayfield	25 Jun 01	Ongoing	79
370F	A	Black Lake	Sawyer/Ashland	30 Jun 01	Ongoing	76
376F	Y	Stella Lake	Oneida	12 Jun 01	Ongoing	89
388M	A	Crex Meadow	Burnett/Pine	25 Jul 01	Ongoing	80
393F	P	Long Lake	Rusk	31 Jul 01 <sup>j</sup>	Ongoing	77
395M	A	Prairie River	Langlade	16 Aug 01 <sup>k</sup>	Ongoing	90
431F	A	Moquah	Bayfield	1 Jun 02	Ongoing	32
432F	Y	Translocated	Price/Linc/Men/Oco/Marin	25 Jul 02 <sup>l</sup>	Ongoing	41
433M	A	Averill Creek	Lincoln	5 Jun 02	9 Dec 02 <sup>f</sup>	29
434M	A	Moose Lake	Douglas	29 May 02	Ongoing	33
435F	P	Oconto River	Menominee/Oconto	26 Jul 02 <sup>m</sup>	Ongoing	28
436F	Y	Translocated	Ontonagon	13 Jul 02 <sup>n</sup>	30 Sep 02 <sup>o</sup>	17
437F	A	North Willow	Oneida	11 May 02	27 Nov 02 <sup>h</sup>	30
438M	A	Flag River	Bayfield	21 May 02	Ongoing	32
439F	A	Flag River	Bayfield	22 May 02	Ongoing	33
440F	Y	Shoberg Lake/Disperser?	Douglas	8 Jun 02	Ongoing	29
441F	Y	Transloc./Mondeux Flow.	Taylor	3 Jul 02 <sup>p</sup>	2 Dec 02 <sup>h</sup>	30
443F	P	Oconto River	Menominee/Oconto	23 Jul 02 <sup>m</sup>	Ongoing	28
444F	A	Hellhole Creek	Ashland/Bayfield	25 Jun 02	Ongoing	29

Table 1. cont.

<b>Wolf Number</b>	<b>Age<sup>a</sup></b>	<b>Pack/Area</b>	<b>Counties</b>	<b>Date Captured</b>	<b>Last Date</b>	<b>Locations<sup>b</sup></b>
446F	A	Casey Creek?/Disperser	Douglas	13 Jun 02	Ongoing	31
447F	A	Bird Sanctuary	Douglas	21 Jun 02	Ongoing	30
448F	Y	Pine Lake	Iron	20 May 02	Ongoing	34
449M	P	Oconto River	Menominee/Oconto	18 Jul 02 <sup>m</sup>	Ongoing	28
450F	P	Oconto River	Menominee/Oconto	20 Jul 02 <sup>m</sup>	Ongoing	28
452F	P	Oconto River	Menominee/Oconto	22 Jul 02 <sup>m</sup>	Ongoing	28
453M	A	Oconto River	Menominee/Oconto	17 Jul 02 <sup>m</sup>	17 Oct 02 <sup>h</sup>	16
454F	A	Oconto River	Menominee/Oconto	19 Jul 02 <sup>m</sup>	Ongoing	29
455F	A	Translocated	Gogebic/Ontonagon	18 Jul 02 <sup>n</sup>	30 Sep 02 <sup>o</sup>	14
456F	Y	Translocated/Somo River?	Vilas/Price/Oneida/Linc.	12 Jul 02 <sup>q</sup>	Ongoing	28
457M	A	Translocated	Iron/Sawyer/Bay./Ash.	10 Sep 02	Ongoing	17
458F	A	Translocated/Giant Pine?	Price/Oneida/Forest	4 Sep 02	Ongoing	18
459M	A	Hoffman Lake	Iron/Price/Ashland	26 Oct 02	Ongoing	12
460F	A	Translocated	Iron/Vilas/Price	17 Oct 02	Ongoing	13
461F	P	North Willow	Oneida	20 Nov 02	Ongoing	8
724F	A	Prairie River	Langlade/Lincoln	16 Aug 01 <sup>r</sup>	Ongoing	418
<b><u>Central Forest</u></b>						
309F	P	Iron Run	Clark	15 Nov 99	Ongoing	186
338M	P	Bear Bluff/Disperser	Jackson/Monroe/Juneau	28 Jul 01	Ongoing	79
340F	A	Rattail	Juneau	5 Aug 01	Ongoing	77
341F	Y	Seneca	Wood	31 May 01	Ongoing	88
343M	A	Seneca	Wood	12 Jun 01	Ongoing	87
406F	P	Bear Bluff	Jackson/Wood	27 Jul 02	Ongoing	21
407F	P	Bear Bluff	Jackson	28 Jul 02	Ongoing	16
408M	P	Bear Bluff	Jackson/Wood	3 Aug 02	Ongoing	21
409M	P	Wildcat Mound	Jackson	10 Aug 02	Ongoing	20
410F	P	Wildcat Mound	Jackson	17 Aug 02	Ongoing	18
420M	A	Wildcat Mound	Jackson	11 Aug 02	7 Oct 02 <sup>f</sup>	6
421F	A	Wildcat Mound	Jackson	13 Aug 02	11 Oct 02 <sup>f</sup>	9
426F	Y	Bear Bluff	Jackson/Juneau/Wood	2 Jul 02 <sup>s</sup>	Ongoing	25
427F	Y	Suk Cerney/Disperser	Juneau/Wood	6 Jul 02 <sup>t</sup>	9 Dec 02 <sup>f</sup>	25
429F	A	Wildcat Mound	Jackson	3 Jun 02	Ongoing	31
442M	A	Suk Cerney	Juneau	6 Jul 02	Ongoing	26
465F	A	Ft. McCoy	Monroe	13 Dec 02	Ongoing	2

Table 1. cont.

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44 wolves in 34 packs, and 5 loners in Northern Forest, 41 still on air at end of monitoring period

17 wolves in 7 packs in Central Forest, 14 still on air at end of monitoring period

<sup>a</sup>Age at time of capture (P = Pup, Y = Yearling, A = Adult)

<sup>b</sup>Total locations from the time of capture

<sup>c</sup>Captured in Gogebic County, Michigan

<sup>d</sup>Recaptured wolf, first captured in Ashland County on 23 Jun 1997, 19 lb. pup too small to collar

<sup>e</sup>Recaptured by Wildlife Services, translocated to Forest County 27 May 1998; lost signal after release. Signal found 28 Oct 2002.

<sup>f</sup>Lost signal

<sup>g</sup>Recaptured wolf, first captured as a pup in Douglas County on 28 Aug 1996

<sup>h</sup>Mortality

<sup>i</sup>Captured in deer farm in Oneida County, translocated to Forest County

<sup>j</sup>Captured by Wildlife Services, translocated to Oneida County 28 Aug 2001

<sup>k</sup>Captured by Wildlife Services, translocated to Forest County 11 Sep 2001

<sup>l</sup>Captured by Wildlife Services on farm, translocated to Price County 30 Jul 2002

<sup>m</sup>Captured by Wildlife Services on farm, translocated to Menominee County 29 Aug 2002

<sup>n</sup>Captured by Wildlife Services on farm, translocated to Vilas County 26 Jul 2002

<sup>o</sup>Dispersed to Michigan

<sup>p</sup>Captured by Wildlife Services on farm, translocated to Price County 15 Jul 2002

<sup>q</sup>Captured by Wildlife Services on farm, translocated to Vilas County 30 Jul 2002

<sup>r</sup>Captured by Wildlife Services, translocated to Forest Cty 11 Sep 2001. Recaptured wolf, first captured in Douglas Cty 28 May 1997

<sup>s</sup>Recaptured wolf, first captured as a pup in Jackson County on 28 Jul 2001

<sup>t</sup>Recaptured wolf, first captured as a pup in Juneau County on 15 Aug 2001

Table 2. Wolves captured and radio-tagged in Wisconsin in 2002.

<b>Wolf Number</b>	<b>Sex/Age<sup>a</sup></b>	<b>Weight (lbs)</b>	<b>Pack/Area</b>	<b>County Captured</b>	<b>Date</b>
<b><u>Northern Forest</u></b>					
--- <sup>b</sup>	M/P	25	Deerbrook	Langlade	17 Jul 02
249	F/Y	52	Price Creek	Price	24 Oct 02
295 <sup>c</sup>	F/A	78	Totagatic River	Burnett	28 Jun 02
430 <sup>d</sup>	M/A	---	Rib River?	Taylor	18 May 02
431	F/A	67	Moquah	Bayfield	01 Jun 02
432 <sup>e</sup>	F/Y	64	Unknown	Burnett	25 Jul 02
433	M/A	70	Averill Creek	Lincoln	05 Jun 02
434	M/A	67	Moose Lake	Douglas	29 May 02
435 <sup>f</sup>	F/P	---	Deerbrook	Langlade	26 Jul 02
436 <sup>g</sup>	F/Y	54	Unknown	Burnett	13 Jul 02
437	F/A	69	North Willow	Oneida	11 May 02
438	M/A	85	Flag River	Bayfield	21 May 02
439	F/A	60	Flag River	Bayfield	22 May 02
440	F/Y	50	Shoberg Lake?	Douglas	08 Jun 02
441 <sup>e</sup>	F/Y	71	Unknown	Burnett	03 Jul 02
443 <sup>f</sup>	F/P	---	Deerbrook	Langlade	23 Jul 02
444	F/A	74	Hellhole Creek	Ashland	25 Jun 02
446	F/A	74	Casey Creek	Douglas	13 Jun 02
447	F/A	62	Bird Sanctuary	Douglas	21 Jun 02
448	F/Y	52	O'Brien Lake?	Iron	20 May 02
449 <sup>f</sup>	M/P	---	Deerbrook	Langlade	18 Jul 02
450 <sup>f</sup>	F/P	---	Deerbrook	Langlade	20 Jul 02
452 <sup>f</sup>	F/P	30	Deerbrook	Langlade	22 Jul 02
453 <sup>f</sup>	M/A	81	Deerbrook	Langlade	17 Jul 02
454 <sup>f</sup>	F/A	80	Deerbrook	Langlade	18 Jul 02
455 <sup>g</sup>	F/A	65	Unknown	Burnett	18 Jul 02
456 <sup>g</sup>	F/Y	58	Unknown	Burnett	12 Jul 02
457 <sup>g</sup>	M/A	80	Unknown	Burnett	10 Sep 02
458 <sup>g</sup>	F/A	72	Unknown	Burnett	04 Sep 02
459	M/A	80	Hoffman Lake	Price	26 Oct 02
460 <sup>g</sup>	F/A	72	Unknown	Burnett	17 Oct 02
461	F/P	62	North Willow	Oneida	20 Nov 02
779 <sup>h</sup>	M/P	18	Blue Hills	Rusk	13 Jun 02
<b><u>Central Forest</u></b>					
338 <sup>i</sup>	M/Y	81	Bear Bluff	Jackson	28 Jul 02
349 <sup>j</sup>	F/P	15	Suk Cerney	Juneau	03 Jul 02
401 <sup>j</sup>	M/P	16	Suk Cerney	Juneau	05 Jul 02
402 <sup>j</sup>	M/P	19	Suk Cerney	Juneau	06 Jul 02

Table 2. cont.

<b>Wolf Number</b>	<b>Sex/Age<sup>a</sup></b>	<b>Weight (lbs)</b>	<b>Pack/Area</b>	<b>County Captured</b>	<b>Date</b>
404 <sup>j</sup>	M/P	15	Suk Cerney	Juneau	06 Jul 02
405 <sup>j</sup>	M/P	42	Bear Bluff	Jackson	20 Jul 02
406 <sup>j</sup>	F/P	42	Bear Bluff	Jackson	27 Jul 02
407 <sup>j</sup>	F/P	37	Bear Bluff	Jackson	28 Jul 02
408 <sup>j</sup>	M/P	43	Bear Bluff	Jackson	03 Aug 02
409 <sup>j</sup>	M/P	46	Wildcat Mound	Jackson	10 Aug 02
410 <sup>j</sup>	F/P	38	Wildcat Mound	Jackson	17 Aug 02
420	M/A	88	Wildcat Mound	Jackson	11 Aug 02
421	F/A	77	Wildcat Mound	Jackson	13 Aug 02
426	F/Y	50	Bear Bluff	Jackson	02 Jul 02
427	F/Y	57	Suk Cerney	Juneau	06 Jul 02
429	F/A	80	Wildcat Mound	Jackson	03 Jun 02
442	M/A	84	Suk Cerney	Juneau	06 Jul 02
465	F/A	67	Ft. McCoy	Monroe	13 Dec 02

33 captured in northern forest (31 collared), 18 captured in central forest (8 collared, 10 fitted with ear transmitters)

<sup>a</sup> Age at time of capture assuming birth date 1 April (P = Pup, Y = Yearling, A = Adult)

<sup>b</sup> Captured by Wildlife Services on farm, died in captivity.

<sup>c</sup> Re-captured by Wildlife Services on farm, relocated to Bayfield County; originally captured in Washburn County in 1999.

<sup>d</sup> Captured by Wildlife Services, released 3 mi. away, re-captured 19 May and relocated to Price County.

<sup>e</sup> Captured by Wildlife Services on farm, translocated to Price County.

<sup>f</sup> Captured by Wildlife Services on farm, translocated to Menominee County.

<sup>g</sup> Captured by Wildlife Services on farm, translocated to Vilas County.

<sup>h</sup> Not collared, too small.

<sup>i</sup> Re-capture, originally captured as a pup in 2001.

<sup>j</sup> Fitted with ear transmitter for pup mortality research project.



Table 3. Wolf depredation cases on livestock and pets in Wisconsin in 2002.

Date	Animal Lost	Pack Involved	County	Payments	Other Actions
1/3	1 dog (injured)	Bear Bluff	Jackson	\$53	None
1/3	3 calves	Moquah	Bayfield	\$2,150	None
1/28	2 deer (deer farms)	Loner?	Bayfield	\$3,700	W.S.attempted trapping
2/15	1 dog (injured)	Bear Bluff	Jackson	\$85	None
4/16	3 deer (deer farm)	Moquah?	Bayfield	\$4,400	None
4/18& 4/24	2 calves	Blue Hills	Barron	\$1,400	W.S.attempted trapping
5/11	2 calves	Kidrick Swamp?	Taylor	\$1,200	None
5/13	1 dog injured (German Sheperd)	Rib River	Taylor	No claim	1 wolf trapped by W.S. & translocated
5/18& 5/31	2 calves	W373 or Skinner Cr.?	Price	\$1,400	W.S.attempted trapping
6/25- Nov.	1 cow, 25 calves ? missing	Totagatic River & others?	Burnett	Pending	9 wolves trapped by W.S. & translocated
7/5	1 cow, 1 calf	Deerbrook	Langlade	\$4,000	8 wolves trapped by W.S., 1 died, 7 translocated
7/26	1 mare, 1 colt	Pioneer Creek?	Vilas	\$10,429	None
8/16	1 dog (Plott)	Bootjack Lake	Oneida	\$2,500	None
9/8 - 10/22	7 sheep killed 20 sheep missing	Flag River	Bayfield	\$2,453.50	W.S. attempted trapping
9/10	4 dogs (Walker/ Bluetick/Plott)	Kidrick Swamp	Taylor	\$8,000	None
9/12&14	2 dogs (Walker/Plott)	Shoberg Lake?	Douglas	\$3,500	None
9/14	1 dog injured (Walker)	Shoberg Lake?	Douglas	\$100	None
9/27	1 dog (Bluetick)	Bootjack Lake	Price	\$2,500	None
10/24	1 dog (Husky mix)	Moquah	Bayfield	\$558	None
11/15	1 dog (Bluetick)	Pelican Lake	Oneida	\$2500	None
11/22	1 foal	Bird Sanctuary	Douglas	Pending	None
<b>21 cases</b>	<b>62 animals killed 20+ animals missing 4 animals injured</b>	<b>11-13+ packs 1? loner</b>	<b>10 counties 10 farms</b>	<b>\$47,228.50</b>	<b>18 livetrapped 17 translocated</b>

Table 3. cont.

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**35 calves killed**  
**2 cows killed**  
**7 sheep killed**  
**20 sheep missing**  
**1 foal killed**  
**1 colt killed**  
**1 horse killed**  
**5 deer killed (deer**  
**farm)**  
**10 dogs killed**  
**4 dogs injured**

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Table 4. Wolf mortality in Wisconsin in 2002.

Date	Wolf Number	Age/Sex	County	Cause	Pack
01/03/02	W367	A F	Douglas	Other wolves?	Chase Brook
01/08/02	W316	A F	Price	Vehicle Collision?	Wintergreen/Loner
01/10/02	----	Y M	Adams	Shot?	Block 127
01/10/02	----	Y ?	Juneau	Shot	Disperser?
01/12/02	----	? ?	Bayfield	Mange?	Smoky Hill
01/19/02	M0068	Y M	Waupaca	Vehicle collision	Disperser
01/22/02	----	A M	Sawyer	Vehicle collision	Block 25
02/04/02	M3608	A M	Florence	Shot/Mange?	Disperser
02/07/02	W286	4YrF	Sawyer	Mange/Other wolves?	Brunet River
02/11/02	----	A F	Oneida	Shot?/Mange	Giant Pine?
02/17/02	M4906	A M	Menominee	Vehicle collision?	Disperser
02/24/02	----	A M	Oneida	Vehicle collision	Disperser
03/07/02	----	A?M	Ashland	Vehicle collision	Chippewa River
03/26/02	----	A F	Douglas	Vehicle collision	Disperser
04/03/02	----	AM	Dane	Vehicle collision	Disperser
04/05/02	----	PF	Juneau	Mange?	Suk Cerney
04/09/02	M711	AM	Marinette	Shot?	Disperser
04/24/02	----	??	Marquette	Shot	Disperser/Hybrid?
05/10/02	----	YF	Oneida	Vehicle collision	Somo River
05/15/02	----	??	Taylor	?	Kidrick Swamp
05/20/02	W296	AM	Douglas	Shot	Crotte Creek
05/24/02	----	YM	Washburn	Vehicle collision	Unknown
05/24/02	----	YM	Oconto	Vehicle collision	Disperser
05/24/02	----	AM	Bayfield	Other wolves?	Siskiwit Lake
05/29/02	W292	AM	Washburn	Other wolves	Tranus Lake
06/13/02	----	AM	Washburn	Vehicle collision	Stuntz Brook
07/02/02	W295	AF	Bayfield	Capture related?	Translocated
07/03/02	W430	AM	Price	?	Translocated
07/04/02	----	PF	Lincoln	Vehicle collision	Averill Creek
07/15/02	W404	PM	Juneau	?	Suk Cerney
07/18/02	----	PM	Langlade	Parvo-virus	Deerbrook
07/25/02	----	Y?M	Washburn	?	?
07/26/02	----	PF	Ashland	Vehicle collision	Torch River
07/29/02	----	PM	Iron	Mange?	Hoffman Lake

Table 4. cont.

<b>Date</b>	<b>Wolf Number</b>	<b>Age/Sex</b>	<b>County</b>	<b>Cause</b>	<b>Pack</b>
07/31/02	----	YF	Douglas	Vehicle collision	?
08/01/02	W401	PM	?	Malnutrition/Mange	Suk Cerney
08/01/02	----	PF	Iron	Starvation	O'Brien Lake
08/03/02	----	P?	Bayfield	Vehicle collision	Siskiwit Lake
08/03/02	----	AF	Washburn	Vehicle collision	Chain Lake
08/04/02	----	P?	Bayfield	Vehicle collision	Siskiwit Lake
08/05/02	W250	AM	Douglas	?	Bird Sanctuary
08/20/02	----	PM	Bayfield	Vehicle collision	Siskiwit Lake
08/27/02	M6606	AM	Langlade	Shot	MI wolf
09/05/02	W349	PF	Juneau	Malnutrition/Mange	Suk Cerney
10/04/02	----	AM?	Marquette	Shot (bow)	Colburn?
10/17/02	W453	AM	Oconto	Vehicle collision	Translocated
10/24/02	----	P?	Clark	Mange?	Iron Run
10/25/02	----	??	Bayfield	Other wolves?	Moreland Lake
10/30/02	----	PF	Burnett	Shot?	Crex Meadow
11/05/02	----	AM	Marquette	Vehicle collision	Disperser?
11/12/02	----	YF	Ashland	Shot?	W. Firelane?
11/14/02	----	P?	Clark	Mange?	Iron Run
11/24/02	----	PM	Juneau	Shot?	Suk Cerney
11/27/02	W437	AF	Oneida	Drowned?	North Willow
11/27/02	W300	AF	Lincoln	Shot	Harrison Hills
11/27/02	----	??	Sawyer	Shot	Price Creek
12/02/02	W441	AF	Taylor	Shot?	Mondeaux Flowage
12/10/02	----	AM	Douglas	Vehicle collision	Disperser?
12/14/02	----	AM	Florence	Vehicle collision	MI wolf?

Of 59 mortalities detected, 5 were Michigan collared wolves, 15 were Wisconsin collared wolves.

## APPENDIX

Nicknames used for radio-collared wolves					
Wolf No.	Sex	Age <sup>a</sup>	Nickname	Status	Sponsor
M036	F	A(3yrs)		Alpha	MI DNR
241	F	A(5yrs)	Marry	Alpha	
246	M	A(≥6yrs)	Alex	Alpha	
248	M	A(≥4yrs)	Grady	Alpha	
249	F	Y(1yr)	Dara	Subordinate	
268	M	A(6yrs)	Barker	Alpha	
285	F	A(≥6yrs)	Shellie	Alpha	
291	M	A(≥5yrs)	Sage	Alpha	
297	M	A(≥5yrs)	Albert	Alpha?	
300	F	A(≥3yrs)	Rose	Alpha	
309	F	A(3yrs)	Ann	Alpha	Chelsea Nehm
332	F	A(≥4yrs)	Pam	Alpha	
336	M	A(2yrs)	Kapu	Subordinate	
338	M	Y(1yr)	Kirby	Subordinate	
340	F	A(≥3yrs)	Ellen	Alpha?	
341	F	A(2yrs)	Rebecca	Alpha	
343	M	A(≥3yrs)	Sasquatch	Alpha	
351	M	A(≥4yrs)	Jay	Alpha?	
355	M	A(≥3yrs)	Brett	Alpha	
369	F	A(≥3yrs)	Crystal	Subordinate?	
370	F	A(≥3yrs)	Lena	Alpha	Marshall Middle School
376	F	A(2yrs)	Leah	Alpha	
388	M	A(≥3yrs)	James	Alpha	
393	F	Y(1yr)	Nora	Alpha	
395	M	A(≥3yrs)	Karl	Alpha	
406	F	P(<1yr)		Subordinate	
407	F	P(<1yr)		Subordinate	
408	M	P(<1yr)		Subordinate	
409	M	P(<1yr)		Subordinate	
410	F	P(<1yr)		Subordinate	
420	M	A(≥2yrs)	Dr. Anderson	Alpha	
421	F	A(≥2yrs)	Sue	Alpha	
426	F	Y(1yr)	Anna	Subordinate	
427	F	Y(1yr)	Angie	Alpha	
429	F	A(≥2yrs)	Flint	Subordinate	
431	F	A(≥1yr)	Toots	Subordinate	
432	F	Y(1yr)	Lorrie	Subordinate	
433	M	A(≥2yrs)	Floppy Ears	Subordinate?	
434	M	A(≥2yrs)	Troy	Subordinate	
435	F	P(<1yr)		Subordinate	
436	F	Y(1yr)	Trisha	Subordinate	
437	F	A(≥2yrs)	Fury	Alpha?	
438	M	A(≥2yrs)	Thomas	Alpha	

## APPENDIX. Cont.

<b>Wolf No.</b>	<b>Sex</b>	<b>Age<sup>a</sup></b>	<b>Nickname</b>	<b>Status</b>	<b>Sponsor</b>
439	F	A(≥2yrs)	Alanna	Alpha	
440	F	Y(1yr)	Jenni	Subordinate	
441	F	Y(1yr)	Stella	Subordinate	
442	M	A(≥2yrs)	Manny	Alpha	
443	F	P(<1yr)		Subordinate	
444	F	A(≥2yrs)	Tara	Subordinate?	
446	F	A(≥2yrs)	Anita	Subordinate	
447	F	A(≥2yrs)		Alpha	
448	F	Y(1yr)	Misty	Subordinate	N. Lakeland Elem. School
449	M	P(<1yr)		Subordinate	
450	F	P(<1yr)		Subordinate	
452	F	P(<1yr)		Subordinate	
453	M	A(≥2yrs)		Alpha	
454	F	A(≥2yrs)		Alpha	
455	F	A(≥2yrs)	Elaine	Subordinate	
456	F	Y(1yr)	Shawna	Subordinate	
457	M	A(≥2yrs)	Payton	Subordiante?	
458	F	A(≥1yr)	Chrissy	Subordinate	
459	M	A(≥2yrs)	Bender	Alpha?	
460	F	A(≥2yrs)	Annie	Subordinate	
461	F	P(<1yr)	Bobbie	Subordinate	
465	F	A(≥2yrs)	Sassafras	Alpha	St. Mary School
724	F	A(≥6yrs)	Kara	Alpha	

<sup>a</sup>Age as of 1 May 2002